

Launch Mission Execution Forecast

Mission: Falcon 9 CRS-23

Issued: 28 Aug 2021 / 0445L (0845Z)

Valid: 29 Aug 2021 / 0309 – 0319L (0709 – 0719Z)



Forecast Discussion: Today into tomorrow morning we will remain in a similar pattern with continued southeasterly flow. Hurricane Ida will further strengthen in the Gulf, but it will be far enough west to allow moisture levels to marginally decrease. Isolated coastal showers are still likely early tomorrow morning, but lower in coverage compared to the last several days. Thus, the primary concerns will be the Cumulus Cloud Rule and Flight Through Precipitation.

The back-up window early Tuesday morning, drier air will move into place as winds weaken and shift more southerly. A more typical summertime pattern is expected with mostly inland showers and storms dissipating after sunset. Conditions will be more favorable with the Cumulus Cloud Rule as the primary concern.

	Probability of Violating Weather Constraints								
Day	40% Primary Concerns: Cumulus Cloud Rule, Flight Through Precipitation								
ch	Weather Conditions							Additional Risk Criteria	
aunch	Weather/Visi	bility:	Iso'd Showers /7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
Ĭ	Temp/Humid	ity:	78°F / 90%	Cumulus	Scattered	2,500	12,000	Booster Recovery Weather:	Low
	Liftoff Winds	(200'):	110° 12 - 17 mph	Cirrus	Scattered	28,000	30,000	Solar Activity:	Low
	Probability of Violating Weather Constraints								
a S	20% Primary Concerns: Cumulus Cloud Rule								
)ei	20%	Prima	ary Concerns: Cum	nulus Cloud	Rule				
ur Delay	20%	Prima	•	ulus Cloud Condition				Additional Risk Cri	iteria
	20% Weather/Visi		•			Base (ft)	Tops (ft)	Additional Risk Cri	i teria Low
48-Hour Del		bility:	Weather	Condition	n s Clouds	Base (ft) 2,500	Tops (ft) 8,000		
	Weather/Visi	bility:	Weather None / 7 mi.	Condition	Clouds Coverage	()		Upper-Level Wind Shear:	Low
Wote:	Weather/Visi Temp/Humid Liftoff Winds	bility: ity: (200'):	Weather None / 7 mi. 76°F / 90% 160° 5 - 10 mph on (POV) is the chance that	Type Cumulus t a Lightning Late	Clouds Coverage Scattered	2,500	8,000	Upper-Level Wind Shear: Booster Recovery Weather:	Low Low Low Ditation, and